Digital Topographic Support System – High Volume Map Production

US Army Corps of Engineers®
Engineer Research and Development Center

Description and Background

The **DTSS-High Volume Map Production (DTSS-HVMP)** is being developed in a effort to modernize the Reproduction Section of the **Topographic Support System (TSS)**. The current TSS Reproduction Section consists of large, heavy, offset lithographic presses with a camera and/or plate maker used to produce the color-separated negative plates. This equipment is housed in seven 30-foot vans. The current reproduction process using the TSS is a time consuming, labor intensive process.

The DTSS-HVMP will provide a tactical capability to rapidly reproduce large volumes of graphic material including maps, charts, and situation overlays. The DTSS-HVMP will be capable of reproducing information from softcopy via a direct digital interface. The DTSS-HVMP will interoperate directly with other DTSS systems to receive and print their digital products.

System

The DTSS-HVMP will consist of commercial, full-color, large format printer(s) and a high-speed paper cutter mounted in a single 20-foot ISO shelter on an Army standard 5-ton truck. The DTSS-HVMP will also have a workstation for queuing and submitting print jobs to the printers.

Advanced Concept and Technology II (ACT II) funds were used to develop, build, and test an HVMP prototype in the FY 00-01 timeframe. In Feb 01 a Delivery Order was awarded to TASC to design and develop two pre-production DTSS-HVMP systems. These systems were delivered to TEC in the June-July 2002 timeframe. These two systems were used to conduct formal Government Technical and Operational testing in the June-September 2002 timeframe. A **Milestone C Production Decision** and a **Production Contrac**t was awarded in the 3QFY03. Twenty-four (24) DTSS-HVMP systems are scheduled to be produced in the FY03-FY05 timeframe.

Key Capabilities

The DTSS-HVMP will be capable of printing 2500, full-color, large format (22.5" x 29.5") water resistant copies in a 24-hr period. The DTSS-HVMP will be capable of producing its first copy in five minutes. Standard **National Imagery and Mapping Agency (NIMA)** digital products, such as **Arc Digitized Raster Graphics (ADRG)**, can also be printed on the system. The DTSS-HVMP will be capable of storing and transporting a minimum of three days of consumables. The DTSS-HVMP will also be interoperable with the other DTSS configurations and serve as their high-volume output printing source.

Milestones

ACT II Contract	FY00-FY01
R&D Funds	FY01-FY03
Milestone C	Apr 2003
OPA Funds	FY03-FY05
Equipment Fielding	FY04-FY05

Point of Contact

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